

From boatanchors@theporch.com Tue Oct 31 15:23:00 1995
From: David Stinson <72227.1640@compuserve.com>
Subject: 6E5 Magic Eye Tube.
Message-ID: <951031132146_72227.1640_EHM36-3@CompuServe.COM>

Stephanie will draw the name for the
NIB 6E5 Magic Eye tube tonight when
I get in from work. If you haven't put
your name in the pot and want it,
send me an email and I'll add you to the list.

73 Dave AB5S/7
72227.1640@compuserve.com

From boatanchors@theporch.com Tue Oct 31 15:23:00 1995
From: w7ni@teleport.com (Stan Griffiths)
Subject: Re: 7704
Message-ID: <199510310557.VAA25318@desiree.teleport.com>

>It appears the 7704A/digital display problem is inside the vertical
>plugin. The rotary switch contacts act like they're dirty. You have any
>recommendation on cleaning them? I'm not real interested in spraying just
>any-old-crap on those switches.
>
>Bill - K6OLG/7
>

Hi Bill,

You have a very interesting problem and it was an excellent idea to ask
before you shot them with chemicals of any kind. I consulted with a friend
of mine (call him Don) who also collects BAs and still works at Tektronix in
the Service Department. Unfortunately, he is not on the Internet. I am
posting this answer to the net because it will serve to illustrate how
instruments earlier than the 7000 series are often more easily repaired than
the 7000 series. Newer is not necessarily better.

Anyway, most rotary switches found in 7000 series mainframes and plugins are
not the normal "Oak wafer" kind you are used to seeing. Tektronix developed
"cam switches" to reduce stray capacity necessary for the increasing speed
and faster frequency response of newer scopes. A cam switch actually has
the contacts mounted directly on a PC board. The contact "arms" are
soldered to a spot on the PC board and are normally open. They are
mechanically pushed closed and contact another spot on the same PC board.
The contacts and the boards they are mounted on are usually gold plated so
they are pretty reliable. The contacts are mounted in a row and a special

plastic cam assembly is mounted above them. The cam assembly is a solid plastic cylinder that rotates as a front panel switch knob is turned. The cam is positively dented and requires much less than the normal amount of torque to rotate it. You can usually rotate a cam switch with your fingers just by gripping the shaft with no knob installed. The cam assembly is really a lot of individual cams cut into the plastic cylinder (by a programmable cam cutting machine), one for each individual contact.

So how do you clean one since the contacts are usually not visible without some disassembly? You disassemble it to clean it. Don first removes the aluminum cover over the cam and then removes the cam itself. Be sure to notice how the cam is mounted so you can remount it exactly the same way. All of the contacts are now visible and you inspect them for bent or mangled contacts. If you find a bent one, replace it by carefully unsoldering the old one and soldering in a new one. (Tek has spare cam switch contacts in their Service Center but I have no idea if you can buy them yourself. You can always try to salvage one from a junk 7000 series plugin.) Once you have all good looking contacts, the cleaning process involves washing the contacts and PC board below the contacts with denatured alcohol. Don cuts a "Kimwipe" (slightly abrasive) into narrow strips and saturates it with alcohol. He then threads the saturated Kimwipe between the contracts and the PC board. He then carefully presses down on several of the contacts with one finger while drawing the Kimwipe through the contacts and PC board with the other hand. He will do this several times for each few contacts until he has done them all. Next, he flushes the contact area with more alcohol and blows it dry with compressed air. Next comes reassembly which is just the reverse of disassembly. No lubrication of any kind was mentioned. Don says this pretty well fixes intermittant cam switches.

Obviously, this is not a job for an average technician. But then most guys reading this are not average technicians. They know how to be careful and what a mistake can cost. This has been a glimpse into the world of servicing Tek instruments of the '70s. I wish I could say fixing the rest of the stuff in one of these "newer" instruments is the easy part but, I am afraid there are a couple more chapters like this one, only worse. Plastic push button switches and custom firmware can be real nightmares.

Good luck with this project, Bill. Let me know how it works out since I have never had the pleasure of cleaning a cam switch!

Stan W7NI@teleport.com

From boatanchors@theporch.com Wed Nov 1 00:53:00 1995
From: Herb_Holeman%Admin%state.ak.us
Subject: Any Drakes us 12JB6 finals?
Message-ID: <50BF963081D11473@-SMF->

Dave WB0GAZ asked what rig uses 12JB6 firebottles.....

The Drake TR-3 uses three of them. They are, of course, the 12 volt filament version of the 6JB6 which was used in the Drake 4 line.

Nostalgia part of the post begins here....

The TR-3 was my first commercial sideband rig, which I bought used from Henry Radio in Pasadena in early 1966. I lived in 6 land (Barstow, CA) back in those days, when I was trying unsuccessfully to leave Alaska for good. The TR-3 was for sale all by itself with no power supply; I can't even remember what I paid for it, but my Elmac AF-67 AM transmitter was accepted as a down payment, then I had three months to pay of the balance interest free. How could anyone resist a deal like that???

First item of business was to build a power supply. A good friend, Dick, K6HIJ, gave me a power transformer which had an octal socket for a 5U4 on its top--from an old black/white TV set. I built up a bridge rectifier circuit using silly-state diodes soldered across the 5U4 socket. Then to provide for the TR-3 12 volt filaments, I scrounged a small 6.3 volt filament transformer and put it in series with the 6.3 volt winding in the TV transformer, and voila! 12.6 VAC!

I owned the rig up into the mid 1970's, when I sold it and bought an Atlas 210, which was a huge step down in performance and quality, but it was nice to use mobile in the car. There was a QST article in the late 60's which showed how to build an RIT (incremental tuning) pot for using the TR-3 on RTTY. The TR-3 gave me many wonderful QSO's on SSB and RTTY over many years with little or no trouble. I don't recommend it for CW, however, since there are too many switches to throw just to go from transmit to receive. I'm left with a very healthy respect for Drake equipment -- it approached Collins performance for about half the price. The early transceivers lacked some operator conveniences but were head and shoulders ahead of everyone else but Collins! Either the TR-3 or -4 make a dandy addition to BA collector's shack! Live on, firebottles!!

de WL7BIL
Herb Holeman
Juneau, Alaska
herb_holeman%admin%state.ak.us

From: n5off@w5ddl.aara.org
Subject: Attention Tom KE4RHH
Message-ID: <214421@w5ddl.aara.org>

Sorry for the post on this, but the house-o-cards packet gateway I'm on doesn't allow a "send reply" I have to type in internet addresses, and yours is loooooooooooooongggggggggggggg.

What is your proper address?

And, the purpose of this message, I'd like your R-390A maker, order number, and serial number data from your rigs for our BA R-390A users survey.

thanks de tom n5off

Reply to:

```
packet          n5off@k5arh.la.usa
Email   (home)  n5off%w5ddl.aara.org@usl.edu
Email   (work)  tfma@chevron.com
```

Lafayette, LA
office 318-989-3430
home 318-984-2561

From boatanchors@theporch.com Wed Nov 1 00:53:00 1995
From: jcreid@CCGATE.HAC.COM
Subject: B&K manual needed
Message-ID: <9509318151.AA815166079@CCGATE.HAC.COM>

Gang,

I posted this about a year ago, but we've added a lot of new members since then. I'm looking for a manual and/or schematic for a B&K Model 400 CRT tester. I've got a feeling someone has been into this thing and before I plug my old CRT's into it, I want to make sure it's wired correctly. The usual reimbursements apply. TIA.

-Jim N6SVS
jcreid@ccgate.hac.com

From boatanchors@theporch.com Tue Oct 31 15:23:00 1995
From: bill.sorsby@dlep1.itg.ti.com (Bill Sorsby)
Subject: Re: Blooming Tektronix Scopes
Message-ID: <199510310018.SAA05246@dlep1.itg.ti.com>

 \succ

>

>So, Bill, you asked what I think and here it is. Of course this is from the
>service technician's view rather than the engineer's view. I think your hv
>transformer is still changing as it gets older. I think the insulation
>material in it is causing the inefficiencies that are causing it to heat and
>the hv supply to go out of regulation. I think it is possible to
>temporarily relieve part of this problem by eliminating the power used by
>the 5642 filaments by switching over to silicon diodes. It may work well
>after you do this. I think the transformer will continue to age and sooner
>or later the hv will cease to regulate again. I think the only solution
>that will work then is to replace the hv transformer. But this is really
>only speculation on my part and I am not absolutely sure I am right about this.
>

I've only been using this scope for the last 10 or 12 years in this
condition. And yes it does get worse with age and use.

>Say, I might just have a hv transformer I could pull out of another unit
>after testing to be sure it is OK and send it to you. You could install it
>in your scope to see if it cures the problem. If it does, you could leave
>it in there, send your old one to the guy in Orlando that rebuilds them and
>either install the rebuilt one in your scope or send it to me to replace the
>"loaner". Of course, this would end all of this great discussion on your
>wayward hv circuit and it could just be that this discussion is actually
>more fun than having a working scope . . . !!! ;-)
>

Of course BoatAnchor discussions are tremendous fun. And I've more or less
adjusted to my 547's quirks so that I don't leave it running all the time
anyway. When used this way the problem rarely manifests itself. Still, my
innate sense of electronic order wants the old scope to be fully functional.
Don't want to spend the money to rewind the transformer unless absolutely
necessary and (this is important) it's been conclusively proven that the
transformer is at fault. (For years I harbored the thought that the
transformer core had somehow degenerated - so my initial reaction at the
thought of rewinding it was not particularly positive. But, you guys say
core's don't degenerate.)

>Should I look for a loaner hv transformer for you?

>

>Stan W7NI@teleport.com

>

I appreciate the generous offer Stan. Give me a little time to finish
troubleshooting this one though.

Regards,
Bill Sorsby, N5BU bill.sorsby@dlep1.itg.ti.com
(ex WA50LS)

From boatanchors@theporch.com Wed Nov 1 00:53:00 1995
From: rbsingl@rs6000.cmp.ilstu.edu (rodger singley)
Subject: re: Boat Anchor Destruction
Message-ID: <9510312024.AA246594@rs6000.cmp.ilstu.edu>

A more effective (and complete) method of destruction is to let a CB'er operate it. I saw a Valiant at a yard sale which had received this treatment. Same sale had a "commercial" 11 meter amp with 4x811a where the little "wings" on the 811 plates had melted and bent down! Afraid a lot of good BA equipment died from this form of abuse!

Rodger WQ9E

From boatanchors@theporch.com Tue Oct 31 15:23:00 1995
From: BILL088@aol.com
Subject: BOATANCHOR DESTRUCTION
Message-ID: <951031095753_8647872@emout06.mail.aol.com>

In chapter 6 of the R-274 (Hallicrafters SX-73) manual there is some information on how to destroy the radio to prevent enemy use.

103. METHODS OF DESTRUCTION

A. SMASH. Smash the crystals, controls, tubes, coils, switches, capacitors, and transformers, using sledges, axes, handaxes, hammers, crowbars, or other heavy tools.

B. CUT. Cut cords and wiring, using axes, handaxes, or machetes.

C. BURN. Burn cords, resistors, capacitors, coils, wiring, and technical manuals, using gasoline, kerosene, oil, flame throwers, or incendiary greandes.

D. BEND. Bend panels, cabinet, and chassis.

E. EXPLOSIVES. If explosives are necessary, use firearms, grenades or TNT.

F. DISPOSAL. Bury or scatter the destroyed parts in slit trenches, fox holes, or other holes, or throw them into streams.

G. DESTROY EVERYTHING.

I wonder how many unlucky boatanchors met with such a fate?

Bill AC4LC

From boatanchors@theporch.com Tue Oct 31 15:23:00 1995
From: pbock@melpar.esys.com (Paul H. Bock)
Subject: BOATANCHOR DESTRUCTION
Message-ID: <9510311513.AA20998@syseng1.se.melpar.esys.com>

> G. DESTROY EVERYTHING.

>I wonder how many unlucky boatanchors met with such a fate?

When I was stationed at NAVCOMMSTA Morocco, we had a demonstration of emergency destruction. Several R-390As deemed "beyond economical repair" were used to demonstrate the proper use of thermite grenades, thermite slabs, etc. You can guess what a thermite slab will do to an R-390A when it's set on top and ignited.....but in case you can't, it burned its way through the entire receiver from top to bottom, and even turned the sand under the receiver into a sort of "black glass" from the heat.

A sad end to a receiver than a ham could have resurrected.

73,

Paul, K4MSG

From boatanchors@theporch.com Wed Nov 1 00:53:00 1995
From: berg stephen erik <z931086@oats.farm.niu.edu>
Subject: Re: BOATANCHOR DESTRUCTION
Message-ID: <Pine.SOL.3.91.951031101224.5835A-100000@oats>

On Tue, 31 Oct 1995 BILL088@aol.com wrote:

> In chapter 6 of the R-274 (Hallicrafters SX-73) manual there is some
> information on how to destroy the radio to prevent enemy use.

>

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>

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> technical manuals, using gasoline, kerosene, oil, flame throwers, or
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> holes, or other holes, or throw them into streams.
>
> G. DESTROY EVERYTHING.
>
>
> I wonder how many unlucky boatanchors met with such a fate?
>
> Bill AC4LC
>
Sounds like normal BA wear and tear to me! I'm sure that most of us have
had to work on stuff that looks like this was done to them.

73,

Steve WA9JML

From boatanchors@theporch.com Wed Nov 1 00:53:00 1995
From: djw@unlinfo.unl.edu (Daniel Wright)
Subject: Re: BOATANCHOR DESTRUCTION
Message-ID: <9510311723.AA27881@unlinfo2.unl.edu>

>> A. SMASH.
>> B. CUT.
>> C. BURN.
>> D. BEND.
>> E. EXPLOSIVES. If explosives are necessary, use firearms, grenades or
>> F. DISPOSAL. Bury or scatter the destroyed parts in slit trenches, fox
>> I wonder how many unlucky boatanchors met with such a fate?
>>
>> Sounds like normal BA wear and tear to me! I'm sure that most of us have

>had to work on stuff that looks like this was done to them.
>
>73,
>
>Steve WA9JML

Sounds like some of the "mint condition-best one of these I've seen-face good-knobs correct-collector condition rigs I've bought!!!!

With tounge planted in cheek (sort of)....de Dan ..

From boatanchors@theporch.com Wed Nov 1 00:53:00 1995
From: HAMRLUND@aol.com
Subject: Re: BOATANCHOR DESTRUCTION
Message-ID: <951031143347_8875979@emout05.mail.aol.com>

In a message dated 95-10-31 10:24:27 EST, pbock@melpar.esys.com (Paul H. Bock) writes:

>thermite slabs

Hey, this what they used to free the flying saucer, frozen in the ice at the north pole.
and the stuff was so hot, it burned up the saucer till it exploded.
fortunetly the alien
(James Arnes) had been thrown clear.
wicked stuff thermite.

robert :-) (couldn't resist)

From boatanchors@theporch.com Mon Oct 30 17:55:38 1995
From: doonan@cordmc.dnet.etn.com (DENNIS DOONAN X6916 (KG9D0))
Subject: boatanchors: St.Paul Hamfest & Area
Message-ID: <9510301625.AA16032@etn.com>

St. Paul / Minneapolis, MS has a few must stops before the annual hamfest.

AxMan Surplus--3 locations, each slightly different. They have a large assortment of parts, stuff, and some pricey used test equipment. I found new octal base relay panel sockets (same base as octal tube with pins brought to terminal block positions) new for \$2. Wire, connectors, etc.

PLL S.H.O.P. in Minneapolis--used desks & office stuff (old time green file cabinets & desks for that "just right" look. Also used PCs and Selectric typewriters.

Antique & Amateur Radio Consignment Center-- St. Paul. This is posible a

potential dream come true. It is a used radio store of tube type gear. A 75A-3 followed me home. I hesitated and missed a Super-Pro in military case--\$100--looked clean. A Drake 2B with 2BQ was sold for \$150. HQ-180--needed help, \$129, HQ-180 working \$250. Heath 2er, \$15. Some older test equipment--tube testers, signal tracers, etc. A set of Kenwood twins. The place isn't big, but it had a lot of stuff.

The St Paul hamfest, well, that's another story. I picked up the Collins pocket guide (from the co-author) along with a 75A2 manual, several nice radio repair books from the 1940s (very reasonable prices), several Lindsey reprints from Paul and not much else.

There was only 1 mud-encrusted R390 with no price, lots of Tektronix gear that was not working but priced a bit high. There were the usual tables of tube and parts sellers. Price and selection is about like it is every where in the midwest. There were a bunch of tables with open air coils and variable condensers. Prices were OK on these.

Also remember a slightly dirty CE 100V (\$125), RCA VoltOhmysts (several for \$10), Eico/Heath VTVMs \$5--\$20.

All in all, not a bad show despite the cattle drive when it opened.
73 de Dennis, KG9DO doonan@cordmc.dnet.etn.com

From boatanchors@theporch.com Tue Oct 31 15:23:00 1995
From: BOB.LIESENFELD@hamlink.mn.org (BOB LIESENFELD)
Subject: BOUNCING METER
Message-ID: <815050829.AA04051@hamlink.mn.org>

Hi gang,

I wonder if anyone out there in BA land ever found a fix for the wildly bouncing grid/plate meter on the old Knight T-50 transmitter? Makes it really hard to tune :-)

72 Bob WB0POQ

Technology is OUT of control.....

---NoSnail v1.17

HAM>link< RBBS - Serving the Amateur Radio Community Since 1983

- 612/HAM-0000 v.34 Ham Radio Spoken Here!!
- 612/HAM-1010 v.32b Reply to sender @ hamlink.mn.org

From boatanchors@theporch.com Tue Oct 31 15:23:00 1995
From: Bill VanAlstyne <bill@cruz.com>
Subject: Re: BOUNCING METER

Message-ID: <199510310559.AA28125@cruz.com>

At 06:11 PM 10/30/95 -0600, BOB LIESENFELD wrote:

> Hi gang,
> I wonder if anyone out there in BA land ever found a fix for the
> wildly bouncing grid/plate meter on the old Knight T-50 transmitter?
> Makes it really hard to tune :-)

Hi Bob,

I had one of those!! (Gosh I wish I still had that rig! What a classic!)

The meter in that rig had one of those cheap, undamped movements, and as far as I know, there is no "cure" for it (other than to replace it with a non-Knight meter -- heresy!). It's just a cheap meter movement. My "cure" for it in ye olde days was to learn to tune the rig very *slowly* and *smoothly*. Takes a steady hand. :)

Bill, N6FN
ex-WN2JOK (when I had that rig, circa 1963)
bill@cruz.com

From boatanchors@theporch.com Wed Nov 1 00:53:00 1995
From: BHall88620@aol.com
Subject: Capacitors - Paper-dielectric
Message-ID: <951031191050_79591387@mail06.mail.aol.com>

Dear BA Folks:

Went down to the local "Friends of the Library" bookstore this evening and picked up a few more old electronics textbooks. While flipping through the one entitled "Reference Data for Radio Engineers" by the Federal Telephone and Radio Corporation, Third Edition, 1949, I came across the following entry:

Capacitors - paper-dielectric
Life - voltage and ambient temperature:

Normal paper-dielectric-capacitor voltage ratings are for an ambient temperature of 40 degrees centigrade, and provide a life expectancy of approximately 1 year continuous service.

I guess most of them die not from use (1 year = 8,500 hours) but from old age... Comments?

73,
Ben

BHall88620@aol.com * Insert clever signature here

From boatanchors@theporch.com Tue Oct 31 15:23:00 1995
From: JBurgwynjr@aol.com
Subject: Clarke Instrument rcvr
Message-ID: <951031071342_79365158@emout06.mail.aol.com>

Anyone have schematic or info on 3167-J Special Purpoe Rcvr Made by Clarke Instruments of Silver Springs, MD Has large circular dial covering 55MHz to 260MHz. Tnx John

From boatanchors@theporch.com Tue Oct 31 15:23:00 1995
From: David Stinson <72227.1640@compuserve.com>
Subject: COLLINS WEIGHTED SPINNER KNOB
Message-ID: <951031132144_72227.1640_EHM36-2@CompuServe.COM>

Lots and lots of people want the Collins weighted spinner knob that fits the KWM-2 or 51S-1. There ain't but one...sigh. The only way I can think of to be fair about it is to ask for a best offer trade.

'tell you what. I'll trade the knob to the person who makes me the best trade for Command Set (ARC-5) equipment. Don't have any command sets? Well, get on the phone. I can wait. It sure beats paying fifty gazzillion dollars from Ne-*BRASS*-ka Surplus Sales. I'm only looking for a few bucks worth of old WW-II junk.

I don't need the LF receivers (have a dozen) or units that have had their power connectors removed, are missing major parts like the BFO assembly or have had their chassis drilled, other than the usual receiver controls or a key jack for the transmitter. I can fix those.

73 DE Dave Stinson AB5S/7
72227.1640@compuserve.com

From boatanchors@theporch.com Tue Oct 31 15:23:00 1995
From: daniel wright <djw@unlinfio.unl.edu>
Subject: Contests and testers...(8-(
Message-ID: <9510310047.AA18765@unlinfio.unl.edu>

Friday night I was chatting away on 40 meters with a fellow BA list member. I was running a T4X barefoot into a Cushcrapp R7. He was running a KWM-2/30L-1 to a 40 meter dipole. We had been on frequency for about an hour when...BLAMMMMM!!!!!!!!!!!!!!
CQ CQ CQ CQ CONTEST CONTEST YOU'RE 59 ZERO FIVE PLEASE REPEAT YOUR CALL.....etcetera etcetera etcetera etcetera!!!!!!!!!!
Now I ain't got nuthin' agin' no contests per se..(how's me engleesh Dave?..(>...) what I DO object to is alligators (all mouth and NO EARS!!...yaz can hear 'em a lot on 75 meters) who plop down on a ding-dang busy frequency 'cause what THEIR doin' is the most important thing on God's Green Earth. Needless to say we had to give up our QSO due to massive QRM...(:/

Now I know this isn't strictly BA related,although both of us were runnin' tube gear. I think the point is that poor operators are poor operators no matter if theyz a runnin' AM,a contest,a net,or a regular belching and farting session like you hear on 75 meters. BTW the nice fella I was trying to QSO with is someone I met right here on the BA-list. We have exchanged lots of e-mail and finally got a chance to hear each other's voice....well,sort of.

73 de Dan -- WA0JRD ..

From boatanchors@theporch.com Tue Oct 31 15:23:00 1995
From: "Cal J. Eustaquio" <ceustaqu@violin.aix.calpoly.edu>
Subject: Courier Amp reduced
Message-ID: <Pine.A32.3.91.951031042452.48622A-100000@violin.aix.calpoly.edu>

Reducing price on my excellent condx EFJ Courier. Now \$300. 73's. Cal, N6KYR.

From boatanchors@theporch.com Mon Oct 30 17:55:38 1995
From: Michael.J.Knudsen@att.com
Subject: Cover-Your-Glass perservative
Message-ID: <9510302002.AA03926@bock.ih.att.com>

At last -- I just recovered from Pinball Expo '95 and got the current address of the dealer of the liquid acrylic perservative I highly recommend for radio dials and any other piece of glass with designs printed on the back side of it. This includes some Gonset RXs and many classic home radios, some antique American clocks, and of course pinball backglasses.

If the ink is starting to flake off, CYG will prevent further deterioration. If it hasn't gone bad yet, CYG will guarantee it

never will. Just don't get it colder than 10 degrees F.

Get the "Lite" version, not regular. About \$18 per quart can plus shipping. One quart will do a couple dozen radio glasses. This stuff is great. Just be sure to get the glass REALLY LEVEL before proceeding. Use the supplied eyedropper.

The Pinball Resource
Steve Young
37 Velie Road
La Grangeville, NY 12540
(914)-223-5613 Fax-7365

PS: Any Ham yet suffered a case of PMI (Pinball Machine Interference)?
The neighbor's electronic pinball goes TILT when you key the mike?
73, mike k w9nrd

From boatanchors@theporch.com Wed Nov 1 00:53:00 1995
From: oddjob@cix.compulink.co.uk (Stephen Walters)
Subject: Dingy anchor FT 101z ideal beginners rig for TX and RX.
Message-ID: <memo.79900@cix.compulink.co.uk>

In-Reply-To: <9510310540.AA02540@texan.frco.com>
Dingy anchor FT 101z ideal beginners rig for TX and RX.

10m~160m, CW and SSB, Valve PA, cheap to feed and easy to use.
Currently being used with a 2m transverter (not included)

300ukp, G7 VFY/ Steve /NW London

Tel 0956 544202

ODDJOB@cix.compulink.co.uk

From boatanchors@theporch.com Tue Oct 31 15:23:00 1995
From: David Stinson <72227.1640@compuserve.com>
Subject: DISAPPOINTMENT
Message-ID: <951031132148_72227.1640_EHM36-4@CompuServe.COM>

Well, Collins fans...I got outbid on the 312A speaker. The old fellow called and told me he accepted *** TWO HUNDRED BUCKS *** for the wretched thing!!

This is insanity....

It was full of holes, for goodness sake....

and rat pills....

(sour grapes continue, but you get the idea....)

Grumble grumble....

Dave AB5S/7

From boatanchors@theporch.com Wed Nov 1 00:53:00 1995

From: dsnowden@ccd.harris.com (Doug Snowden)

Subject: Drake T4X is sold

Message-ID: <9510312115.AA393610@rs2.ccd.harris.com>

I took the first offer. Not in this to make money. Still have most of the other stuff I mentioned. I still have a pile (~250) QST's for sale or trade to a local picker-upper. 50's 60's 70's.

Doug, N4IJ

dsnowden@ccd.harris.com

From boatanchors@theporch.com Wed Nov 1 00:53:00 1995

From: howellh@acad.winthrop.edu

Subject: Eico 720

Message-ID: <95103111491484@acad.winthrop.edu>

WINTHROP UNIVERSITY

Electronic Mail Message

Date: 31-Oct-1995 11:44am EDT

From: Haney Howell

HOWELLH

Dept: Mass Communication

Tel No: 323-4534

TO: Remote Addressee (_smtp%"boatanchors@theporch.com")

Subject: Eico 720

Before I dig out the 150 watt American Beauty soldering iron, perhaps one of my higher-tech friends can answer this question.

I got the Eico 720 up and running the other night, and it played nicely with the

730 modulator. Last night, however, I was trying to interface the Heath VFO from my DX-60 to see if it would play (yep, it's powered from the '60!). It loaded up fine, but I could hear nothing on the receiver. Turns out that the baby is apparently in self-oscillation, because it loads up nicely (only God knows where!) without the VFO.... or a crystal.

I ran into this problem in the '50s with a home brew rig, but for the life of me I can't remember where to start looking and switching. Any suggestions?

Also, still looking for that Eico 733 VFO, should anyone have one floating free.

Thanks

Haney no2n howellh@winthrop.edu

From boatanchors@theporch.com Wed Nov 1 00:53:00 1995
From: zoom@willow.sps.mot.com (Chris Terwilliger)
Subject: ER_index
Message-ID: <9510311700.AA11725@willow.sps.mot.com>

I have uploaded a complete index of "Electric Radio" to the listserver. To get it, send the command "get boatanchors "ER_index.txt" to listserv@theporch.com. It is also available via FTP. The index is current up to issue 72 (apr-95). I will continue to update it as time permits. I used a scanner and "OmniPage" OCR software to grab the index and proofread it several times. There is probably a few errors and I would appreciate hearing about any you find. The file is a tab-delimited text file, so it should be easily imported to any spreadsheet or database program of your choice. The fields are: Catagory, Article, Author, Issue, and Date. Please send all comments, errors, etc. to "zoom@willow.sps.mot.com".

tnx

Chris Terwilliger, AA7WD

From boatanchors@theporch.com Wed Nov 1 00:53:00 1995
From: Andy Wallace <wallace@mc.com>
Subject: Re: ER_index
Message-ID: <9510312241.AA06372@panda>

Thanks for making that index, Chris. As some of the BA people might remember, I had promised to do just that some time ago. I got as far as the second year before the current workload put

it on hold and I'm ashamed to say I never finished it. :-(But I am very happy that someone else thought this was a worthwhile project. :-)

--Andy
wallace@mc.com

From boatanchors@theporch.com Wed Nov 1 00:53:00 1995
From: aa4rm%amos.UUCP@mathcs.emory.edu (Marty)
Subject: Re: First Solid-State Rigs?
Message-ID: <9510311424.AA16503@amos.YP.mystnite>

Hallicrafters built several prototype FPM200s in 1959-1960 interval.

They were hybrids wi. a 12BY7 driver & 2 6146 PAs.. Free-running osc. p-s.

They were much too complex & pricy. Not a shared IF rig such as the KWM-1 (& later Halli FPM300). They were seperate RX - TX thingies like the sainted Cosmophone 35. They died a prototype curiosity.

So mebbe that'll help!

Marty

From boatanchors@theporch.com Mon Oct 30 17:55:38 1995
From: dmedley@indirect.com (David Medley)
Subject: FS Box of old knobs
Message-ID: <199510301817.LAA12236@ns2.indirect.com>

This box contains 47 knobs, all old. I am too tired (lazy) to enumerate them but there are quite a few SX-28 knobs and some from earlier Super Skyriders like the SX-16. There are also the three bakelite escutcheons from an SX-28. This lot should be worth \$40.00 plus shipping to someone OBO of course.
Dave KI6QE

From boatanchors@theporch.com Wed Nov 1 00:53:00 1995
From: dmedley@indirect.com (David Medley)
Subject: FS Weird Tubes
Message-ID: <199510311953.MAA11558@ns1.indirect.com>

Here is the inventory of a box of weird tubes. They are untested as for the most part I have no idea what they are but they look fine. In random order

as I am too lazy (tired) to sort them out!!

Metal Tubes

GL6137(5),CK1005,2X185(this appears to be a 1meg crystal),5693,6SA7,6SC7,0Z4,Hytron 100-77,K67BJ,VT116

Glass Tubes

1B3GT(2),5992(2),6SN7WGTA,1626,1633,1609,Amperite B-4,CENCO Cat 7266 (2)

Some kind of weird display

tube?,GL816,41(4),1633,1635,VT-232(2),1274,7193,5691,5692(5),5852,2E26(2),2C52(2),2B23(2),VT109(9),6087,VT-135,VT-137(6),816(3),185R8

This looks like 70 tubes. They should be worth at least 20c ea to someone.

My price \$20.00 shipped any of the 48 states OBO

reply dmedley@indirect.com

From boatanchors@theporch.com Wed Nov 1 00:53:00 1995

From: dmedley@indirect.com (David Medley)

Subject: FS Wireless Set #19 valves

Message-ID: <199510312000.NAA14659@ns2.indirect.com>

I have a khaki colored box marked Wireless Set No 19 Set of spare Valves. The Wireless set No19 was the famous tank radio of WW2 and was even manufactured in the US at one time. There is one tube missing, a VR135. All the others appear OK. \$25.00 plus shipping OBO
reply dmedley@indirect.com

From boatanchors@theporch.com Tue Oct 31 15:23:00 1995

From: "Integration Area" <integrat@usr.com>

Subject: FS: Heathkit IP-32

Message-ID: <9509318151.AA815153752@robogate.usr.com>

Time to make room for more Navy stuff, so...

For Sale:

Heathkit IP-32 Regulated Power Supply

0-400V @ 100mA

0-100V @ 1mA

A bit dirty, with a small scuff on the front panel, but it does work (loaded up yesterday). I do not have a manual. Best offer of at least 10 bucks, or a trade for some minor bit of military stuff.

Recent postings concerning best-offer ads cause me to have a little

concern. I am a bit cautious, as I have given the business before by a tube dealer. I have no idea what Heathkit stuff is worth, as I collect military equipment. If I am way off the mark (up or down), please let me know. You will not offend me.

William Donzelli
integrat@usr.com

From boatanchors@theporch.com Wed Nov 1 00:53:00 1995
From: Tom Clarke <clarke@cs.ucf.edu>
Subject: Re: FS: Mucho vintage & high end, must sell
Message-ID: <199511010014.AA04063@longwood.cs.ucf.edu>

In rec.audio.marketplace Christopher Cougill wrote:

PLEASE REPLY TO cucc4@uxa.ecn.bgu.edu (Christopher Cougill)

NOT ME !!!! NOT ME !!!!
OR PHONE THE NUMBER BELOW

Here is your chance to outbid some audio types:

>Hey all,

> My buddy Tom, in Tucson, just traded a '67 Land Rover for a whole
>cache of gear (I'm serious!). He needs to sell all of it now:

.....

> 15 "211" vacuum tubes, 12 are GE's, 3 are RCA's, all NOS in box,
> \$1050obo takes all

.....

> I think that's all... All prices are OBO. I have not seen any
>of this gear, but can say that I've dealt with Tom for a few years now
>and have NEVER been disappointed; he is a very honest and straightforward
>guy. Call him at (602) 795 5484 (Tucson). He'll tell you more and take
>offers... (If that phone # doesn't work, try are code 520 -- I may have
>the wrong one in my memory).

> Tks,
> Chris Cougill

From boatanchors@theporch.com Tue Oct 31 15:23:00 1995
From: David Stinson <72227.1640@compuserve.com>
Subject: GENERAL RADIO/HN/SMA CONNECTORS
Message-ID: <951031132207_72227.1640_EHM36-7@CompuServe.COM>

OK! OK! Last letter from me today!

....until the next one...heh heh

The list of lots of General Radio and HN adaptors and connectors is ready and I will be posting it to those who wrote me this evening.

If you wish to see the list, please send email.

Thanks,
Dave Stinson AB5S/7
72227.1640@compuserve.com

From boatanchors@theporch.com Tue Oct 31 15:23:00 1995
From: bill@texan.frco.com (William Hawkins)
Subject: Getting rich off old radios
Message-ID: <9510310540.AA02540@texan.frco.com>

We hear stories about high prices paid by collectors for stuff we once knew as junk (bear with me, Jack). Dirty, modified, some even with wrong knobs, Marconi sets sold for multi thousand dollars at the Ford Museum auction early this month. Tube audio amps sell for outrageous prices. El Dorado beckons - or does it? Is there really enough stuff in my basement to make me rich? Should I put on the miners lamp and pick up a pick, and go looking for the nugget that will let me quit my day job? I don't think so.

On the other hand, there is the guy who wasn't going to the Saint Paul hamfest last weekend because they wanted \$7 to get in the door. He said one year he took a box of loose parts and sold them for the entrance fee, so that was OK.

The message I am getting is - lighten up.

Now, I need some storage space, so I'm gonna have to move some sets that no longer fascinate me. I'd sell them really cheap to anyone who came and took one away (prior arrangement required). But if you want me to extract the set from its hiding place, pack it so it might survive the trip, and take it to a shipper, I'd like something a little closer to what I paid for it. But, it's only worth what I get for it, right?

Sometime this week (probably), I will put prices on the following gear. If you have a special interest in anything in this list, write to me

before I put it up for sale, because the first person to meet my price will get the set. I wish there was a better way, but I don't know of one - except this pre-sale notification.

Hallicrafters SX-62A continuous 540 KC to 109 MC AM/CW/FM
Hallicrafters CRX-3 Aircraft band 108 to 136 MC AM only
Hallicrafters DD-1 540 KC to 46 MC, modified center section only
Hallicrafters SP-44 panoramic adapter, fuse is jumpered
National HFS, with doghouse P/S, 27 to 250 MC AM/CW/FM

Bill Hawkins bill@bvc.frco.com 612 895-2085 Minneapolis, MN USA

From boatanchors@theporch.com Mon Oct 30 17:55:38 1995
From: HAMRLUND@aol.com
Subject: hammarlund fs
Message-ID: <951030121318_93220490@emout06.mail.aol.com>

a friend, who doesn't have net access, wants to sell his HQ-215.
he's asking \$250 + shipping (below market value)
please do not email me.

Raymond Staiduhar
414-464-2251 after 5 pm central (milwaukee area)

thanks
robert

From boatanchors@theporch.com Tue Oct 31 15:23:00 1995
From: Michael.J.Knudsen@att.com
Subject: Re: Home-made Tubes
Message-ID: <9510302223.AA04249@bock.ih.att.com>

Well, HRB-Singer was a legit R&D (Govt contracts) small company in State College (the civilian side of the street from Paterno U.) back in the mid-late '60s. Into radar and signal processing. I interviewed for a summer job there once.

So if this is indeed an April article, they got their little facts right to lend it some verisimilitude (a word best not used on code tests :-)
73, mike k w9nrd

From boatanchors@theporch.com Tue Oct 31 15:23:00 1995
From: Gary Gitzen <garyg@cup.hp.com>
Subject: Re: Home-made Tubes

Message-ID: <199510310133.AA256933210@hpuxsvr.cup.hp.com>

Hi All,

If anyone is really serious about trying to make their own tubes, I have a sub_micron roughing pump and a diffusion pump I could turn loose. I don't remember the specs on the diffusion pump, but that pair would give a very respectable vacuum.

Regards,
Gary

From boatanchors@theporch.com Mon Oct 30 17:55:38 1995
From: scott@hplst.lvld.hp.com
Subject: Re: I HATE CONTESTS!!!!!!
Message-ID: <199510302027.AA236464830@relay.hp.com>

Well, this is as close as I'm likely to come to a controversial BA message, but I promise to keep things positive and relevant.

Paul writes:

> Does any one of you kind people out there have the name at CQ of the
> gentleman who set up this CQ World Wide DX fiasco that I had to endure
> this weekend? I owe this wonderful person a lovely note of
> appreciation for his efforts in making my weekend "unique".

Funny this should come up. Last night I was listening on the 75A-1 to a couple of the West Coast AM guys chatting on 3870 when a loud sideband signal started intruding. I switched over to the A-4 to see where they were, just in time to hear a couple of 5's complaining about obnoxious AM signals cluttering up the band. AM is, of course, wasteful of spectrum and should be banned. The fact that the AM'ers had been there for an hour before these guys came on was irrelevant. AM has no business cluttering up "their band".

The point? It's awfully easy to criticize what the other guy's doing when it interferes with what you want to do. In the grand scheme of things contesters, like AM'ers, use very little spectrum when averaged over the course of the year. They do tend to dominate certain bands during big contests, but they're rare enough that it really has little impact. And most of 'em *really enjoy* what they're doing, just like I enjoy my BA's. To a rabid tester, contesting *is* amateur radio. I try to remember that.

In my mind, I try to cut them a deal. I won't complain about them "taking over" part of a band a few weekends a year if they don't gripe about my big wide AM signal once in a while. Seems fair to me. When I add up the time, I know I'll have spent more hours AMing and ragchewing over the next year than testers will have spent testing. Live and let enjoy. Heck, once in a while I'll even jump in and join 'em in a very non-serious way. Seems a good strategy to either join in, or walk away for a while and do something else.

Anyway, for my part I spent most of Sunday listening to some of the DX on 10, 15 and 20, jumping up from the workbench and making an occasional contact when I felt like it, while spending most of my energy working on the newly acquired 75A-4. A pleasant way to spend a gloomy Sunday afternoon to my way of thinking. Kept my BP down too!

Scott Turner KG0MR scott@lvld.hp.com

From boatanchors@theporch.com Mon Oct 30 17:55:38 1995
From: pbock@melpar.esys.com (Paul H. Bock)
Subject: Info request on Viking Challenger
Message-ID: <9510301919.AA01417@syseng1.se.melpar.esys.com>

Although I'm familiar with certain Johnson Viking BAs (Adventurer, Viking II, Ranger, and Ranger II) I'm not too familiar with the "innards" of the Challenger (other than the fact that it's CW & AM and has no VFO). Could someone more knowledgeable on these wee beasts drop me an e-mail and enlighten me with info a bit more detailed than I might find in an old Handbook or QST ad?

Thankee ever so much.

Vy 73,

Paul, K4MSG pbock@melpar.esys.com

	* Paul H. Bock, Jr.	* Principal Systems Engineer
(_)	* E-Systems/FC Div.	* Telephone: (703) 560-5000 x2062
)	* 7700 Arlington Blvd.	* Internet: pbock@melpar.esys.com
	* Falls Church, VA 22046	* Mailstop: N203

"Imagination is more important than knowledge." - Albert Einstein

From boatanchors@theporch.com Wed Nov 1 00:53:00 1995
From: Simon Buxton <sbuxton@ccf.health.nsw.gov.au>
Subject: Info Tektronics 310
Message-ID: <Pine.PMDF.3.91.951101093237.549468766A-100000@health.nsw.gov.au>

Gang,

I notice that there has been a fair bit of discussion on Tektronics scopes of late. So I wonder if anyone can give me any info on the model 310 which my son uses to fix boatanchors? It is a great shack heater, but when was it made (1950s?) and what are its main problems or shortcomings?

Thanks - Simon

Simon Buxton VK2EII Sydney, Australia
E-mail : sbuxton@ccf.health.nsw.gov.au Compuserve :100352,1612
Packet : vk2eii@vk2op.syd.aus.oc

From boatanchors@theporch.com Wed Nov 1 00:53:00 1995
From: "Randy Zelick" <RANDY@sbii.sb2.pdx.edu>
Subject: Re: Info Tektronics 310
Message-ID: <5A0D5C3209F@sbii.sb2.pdx.edu>

Hi Simon,

Well you just happened to catch me with my 1969 Tek catalog on my desk. There is a Type 310A listed (\$735.00). You could get the options of a carrying case, compact camera, and a special base containing a fan which is recommended for continuous operation above 25 degrees C.

Cheers,

=Randy=
Randy Zelick
Dept. Biology
Portland State University
P.O. Box 751
Portland, OR 97207
503-725-3086 (voice), 503-725-3864 (fax)

From boatanchors@theporch.com Wed Nov 1 00:53:00 1995
From: Henry van Cleef <vancleef@bga.com>

Subject: Re: Info Tektronics 310
Message-ID: <199510312358.RAA01937@zoom.bga.com>

As Simon Buxton said

>
> Gang,
>
> I notice that there has been a fair bit of discussion on Tektronics
> scopes of late. So I wonder if anyone can give me any info on the model
> 310 which my son uses to fix boatanchors? It is a great shack heater, but
> when was it made (1950s?) and what are its main problems or shortcomings?
>

I have two 310 scopes, from both ends of the serial number range. The 310 was built from about 1955 until 1958, when it was replaced by the 310A. As Stan Griffiths points out in his fine book on old Tek scopes, the 310 had some of the very earliest "printed" circuit boards in the vertical preamplifier and the high voltage power supply, which sometimes give trouble (mind didn't). Also, the 310 originally used silicon rectifiers. These can give trouble, and should be changed to silicon rectifiers if you use the scope at all regularly and it has not been converted.

Performance specs on the scope are DC-4Mhz. vertical amplifier, 2KV acceleration on the CRT, 10 Mv/Div maximum sensitivity, and an 8 X 10 display of quarter-inch divisions. It is a much smaller scope than anything else in the Tek product line from that period, weighs about 23 lbs., and is easy to move around.

Drawbacks? The thing that you want to watch out for with these scopes is heat. They have no cooling fans, and generate nearly 200 watts of heat. You should not turn the scope on and leave it on all day. I generally turn mine on, give it 10-15 minutes to settle down, and use it for 2-4 hours, which is about the longest I am at a bench doing work requiring a scope. Don't pile stuff on top of it, and pay some attention to keeping it cool. Tek made a fan base for these that blew air up through them. You will, of course, be working with the relatively low (for a Tek scope) bandwidth, and a low CRT writing rate at high sweep speeds. The CRT is an industry standard type, not a Tek special, although Tek made the CRT's for all but the earliest ones. So a replacement CRT can be found more easily than for the 316 or 317. In terms of size, and convenience, they are on a par with the later 400 scopes, but with much less performance, but they are inexpensive and very easy to maintain.

--

Hank van Cleef vancleef@bga.com vancleef@tmn.com

From boatanchors@theporch.com Wed Nov 1 00:53:00 1995
From: doonan@cordmc.dnet.etn.com (DENNIS DOONAN X6916 (KG9DO))
Subject: Is it a 51J-3 or a R388???
Message-ID: <9510311700.AA23034@etn.com>

OK, this is probably a silly question, but I'm beginning to believe my 51J-3 was born as a R388.

The nameplate is missing on the front panel but it has 4 holes that seem to indicate R388. S/N is 6597.

There is no anti-fungal coating under the chassis==> 51J-3.

In the Collins pocket Guide and the Tube Communications Receiver book they show R388s. Can any one tell me if the 51J3 had the "51J Receiver" on the faceplate like the 51J1?

The schematic on the inside top cover has the edges missing, so there is no mil-number. Also, I cannot seem to find any mil-type inspection stamps.

Any ideas?

73 de Dennis, KG9DO doonan@cordmc.dnet.etn.com

From boatanchors@theporch.com Mon Oct 30 17:55:38 1995
From: Michael.J.Knudsen@att.com
Subject: Re: Knight T-60
Message-ID: <9510302035.AA03997@bock.ih.att.com>

This detuning bit (to avoid chirp) must relate to what I saw in a video copy of an old OSS (pre-CIA) training film on operating the SSTR series of "spy" xcvrs. These used a single 6L6 xtal-controlled, with pilot lights to indicate RF output and plate current (the latter usually ignored).

The film says to tune for resonance, but if the keying is sluggish (too high Q?) then tune off to one side. Not the side where resonance *quickly* goes away (probably the opposite mode of the xtal) but on the side where it slowly diminishes.

This gives nice fast keying, as shown by the light bulb. It might also reduce chirp, though on xtal this might not have been a concern. Of course if every agent had a uniquely chirping yowpee-whopp signal, it would make it harder for the Nazis to fake his reports if they caught him :-)

73, mike k w9nrd

From boatanchors@theporch.com Mon Oct 30 17:55:38 1995
From: Bill Smith <bilsmith@crl.com>
Subject: Re: Knight T-60
Message-ID: <Pine.SUN.3.91.951030131731.26599C-100000@crl12.crl.com>

Michael was discussing ways to reduce chirp, which raises a question.. (I am not a CW operator, like the mode, but haven't been bit hard enough yet, it is a Round Tuit project at present)

This question is asked in the context of weak signal conditions in the presense of selective fading. Here it is assumed that multipath and phase cancelling effects cause the loss of propagation for narrow bands of frequencies over a short time.

Seems that with selective fading, a 'chirpy' signal might be an advantage in that the chirp would sweep through a precise null created during a selective fade and would be still copyable. A 'clean' signal would be adversely affected as the single note would disappear.

Any comments? Hope this isn't off-topic.

de Bill, AB6MT
bilsmith@crl.com

From boatanchors@theporch.com Mon Oct 30 17:55:38 1995
From: Michael.J.Knudsen@att.com
Subject: Re: Knight T-60
Message-ID: <9510302314.AA04339@bock.ih.att.com>

Well, it may be getting off-topic, but if a chirpy/whoopie "dash" swept thru the null frequency, that would knock a hole in the middle of the dash, making it sound like two dots. And so on.

You are basically right about selective fading. It really distorts an AM signal when it hits the carrier. You get a still-strong, but hideously trashed and uncopiable signal. If you have a stable rx, especially one that lets you use AVC with BFO on, it can pay to copy such AM in SSB mode. Just zero-beat the carrier and pick a sideband.

BTW, a spark or MCW signal would probably cut thru selective fading just fine, since it sends several frequencies at once. It would unforch be copyable at the FCC monitoring office, if such places still exist (these modes are illegal).
73, mike k w9nrd

From boatanchors@theporch.com Mon Oct 30 17:55:38 1995
From: dma@IslandNet.com (Jan Skirrow)
Subject: Lambda Model 71 PS
Message-ID: <m0t9zhv-0005XeC@island.amtsgi.bc.ca>

I need a circuit diagram for this power supply. Of course a manual would be even better!

Jan Skirrow, VE7DJX
dma@IslandNet.com

From boatanchors@theporch.com Mon Oct 30 17:55:38 1995
From: Bill Standerfer <bills@hpslwes.lvld.hp.com>
Subject: Re: Luminescent paint source
Message-ID: <199510301829.AA102927762@relay.hp.com>

John Martin, jmartin@hrlban1.aircrew.asu.edu wrote:

>[...]
>Half a pint costs \$16.95. They also sell mil-surplus plastic polishing
>compound for 'taking out' scratches on plastic windscreens and canopies of
>aircraft, which might be useful for meter covers. FWIW.

There's a product called Micro Mesh that works very well for plexiglass blemishes. It is a kit of abrasives that starts rather coarse with several steps down to extremely fine for removing large or small scratches. It takes time to work down to the very fine finish material, but the result is very good. We've used it on our airplane windows in a couple of places with good results. You can probably find it at a pilot shop on a local general aviation airport or from places like Sporty's Pilot Shop. I think the kit is around \$20.

Bill

Bill Standerfer	*	Hewlett-Packard Company
CFI-A, IA, ME	*	Measurement Systems Division
bills@lvld.hp.com	*	Loveland, CO 80539
Baron N222AB - KF0DJ	*	970-679-2378

From boatanchors@theporch.com Tue Oct 31 15:23:00 1995
From: kevin@beacons.cts.com (Kevin Sanders)
Subject: Making a large filament supply
Message-ID: <m0tA9Bg-000HvqC@beacons.cts.com>

A friend gave me a scrapped Eimac 3X2500 tube which I'd like to make

into a novelty room heater. I'm not sure how much filament power it needs, but I'm guessing 500 watts (anybody have the specs on this bad boy?) My chances of finding a filament transformer for it are slim to none, so I was wondering if it would be feasible to run several smaller transformers in parallel to achieve the necessary power?

73,

Kevin Sanders, KN6FQ (SDG)
kevin@beacons.cts.com

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From boatanchors@theporch.com Tue Oct 31 15:23:00 1995
From: jproc@worldlinx.com
Subject: RE: Making a large filament supply
Message-ID: <Chameleon.4.01.2.951030131207.jproc@jproc>

o I was wondering if it would be feasible to run several
>smaller transformers in parallel to achieve the necessary power?

Kevin,

I would not recommend paralleling more than two power transformers especially when high power is involved. I base this statement on the assumption that each winding has a different current output. A problem arises in trying to equalize the currents. Both the problem and solution are well explained in one of the latest ARRL Handbooks (page 6-2 of the 1993 Handbook as an example).

Regards,

~~~~~  
Jerry Proc VE3FAB  
E-mail: jproc@worldlinx.com  
Radio Restoration Volunteer  
HMCS Haida, Toronto Ontario  
~~~~~

From boatanchors@theporch.com Tue Oct 31 15:23:00 1995
From: Jeffrey Herman <jherman@hawaii.edu>
Subject: Re: Making a large filament supply
Message-ID: <Pine.SV4.3.91.951030214625.5783A-100000@uhunix3>

On Mon, 30 Oct 1995, Kevin Sanders wrote:

> ... I was wondering if it would be feasible to run several
> smaller transformers in parallel to achieve the necessary power?

As a young pup I recall being warned against doing this - something about out-of-phase voltages? Maybe someone could confirm or debunk this...

Jeff NH6IL

From boatanchors@theporch.com Tue Oct 31 15:23:00 1995
From: wlfuqu00@service1.uky.edu (Bill Fuqua)
Subject: Re: Making a large filament supply
Message-ID: <199510311400.JAA09834@service1.cc.uky.edu>

At 10:47 PM 10/30/95 -0600, Kevin Sanders wrote:

>A friend gave me a scrapped Eimac 3X2500 tube which I'd like to make
>into a novelty room heater. I'm not sure how much filament power it
>needs, but I'm guessing 500 watts (anybody have the specs on this
>bad boy?) My chances of finding a filament transformer for it are
>slim to none, so I was wondering if it would be feasible to run several
>smaller transformers in parallel to achieve the necessary power?

>

>73,

You can make your own transformer. This is what I do when I need something like this.

Also it can be an low capcatance transformer as well by spacing the secondary from the primary with some insulating blocks. Thus eliminating the need for a filament choke. The trick is to find an old variable auto transformer. Very often you can find them with bad brushes or broken parts that make them unusable.

Take a 750 to 1000 VA (60 Hz !!!) variac and strip off all the hardware. Check the windings for any damage. If it is damaged on one end you can remove some of the turns.

Take a bit of small gauge insulated wire and make say 10 turns on thru the core. Plug it in and measure the open circuit voltage on the 10 turn secondary. Volts(rms)/turns is what you are looking for here. It should be around 1/2 to 1/3 volts per turn.

Remove your test secondary and wrap the core with some High temperature insulating tape. Remember some of the primary is bare and must be covered.

You then chose some large wire for you secondary and wind it. It won't

take very long sense there will only be 20 or 30 turns. Make sure that you provide a center tap for a directly heated filament.

Good luck
es 73
Bill ko4www

William L. Fuqua III P.E.
Department of Physics and Astronomy
CP-177 Chem. Phys. Bldg.
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Lexington, Ky 40506-0055
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Phone (606) 257-4155

From boatanchors@theporch.com Wed Nov 1 00:53:00 1995
From: mirage!pamars@uhura.neoucom.EDU (P.A.Marshall)
Subject: RE: Making a large filament supply
Message-ID: <9510311241.AA02113@mirage>

jproc@worldlinx.com writes:

>

> I would not recommend paralleling more than two power transformers especially
> when high power is involved. I base this statement on the assumption that
> each winding has a different current output. A problem arises in trying to
> equalize the currents.

>

This problem is not at all clear cut in practice. What happens is not that the current rating of the xformers are different, but that the voltages are. Even if you "tune" for exactly equal output voltages at no load, as you apply load one unit will sag more than the other and the low one tends to get back fed by the guy with the higher voltage. As I remember the handbook correctly mentions that this is more of a problem with high current xformers (due to lower winding resistance). Now in practice what happens is that as load comes on the unit with the higher voltage is supplying most (all?) of the load, so its output voltage drops the most, but at some point the other unit starts taking up load as well, the more winding 'R' the more this tends to happen, you can't get the last drop of power out of this setup, but you can get something approaching the sum of the power ratings. The lower the winding resistance or the larger the mismatch of the units the less this tends to work out with livable results. The general solution is to use an autotransformer to equalize the voltages (autotransformer = center tapped low voltage transformer secondary with a good 'nuff current rating) BTW, you can't use two chokes, 'nuff said. You can balance any number of

transformers I assume, but I would think it would get rather messy with more than four (and three autotransformers). Maybe some of our members with broadcast backgrounds have some more (or other) insight into this, or maybe everything today comes with the right size transformer :-)

Al Marshall "Real Radios Glow in the Dark" almarshall@acm.org

As nightfall does not come at once, neither does oppression. In both instances, there is a twilight when everything remains seemingly unchanged. And it is in such twilight that we all must be most aware of change in the air--however slight--lest we become unwitting victims of the darkness.

Justice William O. Douglas

From boatanchors@theporch.com Wed Nov 1 00:53:00 1995
From: bill@texan.frco.com (William Hawkins)
Subject: RE: Making a large filament supply
Message-ID: <9510311836.AA02887@texan.frco.com>

Haven't seen the power requirement yet, but you might be able to use a pole pig (power company pole mounted transformer). A 25 KW 4400 to 220/110 has a secondary rated at more than 100 amps. Connect the high side to 220, and you have 11/5.5 volts. There's a lot of iron in there, though. Make sure the secondary is connected to something before you open the primary circuit, or use a vacuum relay or other HV switch.

It might be easier to get more tubes and run them in series across the power line. More heat than you bargained for, though. :-)

From boatanchors@theporch.com Wed Nov 1 00:53:00 1995
From: Steve Linscott <linscot@is.rice.edu>
Subject: RE: Making a large filament supply
Message-ID: <199510311911.NAA04894@is.rice.edu>

A handy source, especially for "show" tubes is a surplus switcher. I bought a 9 volt 10 amp supply for 10 bucks, and cranked it up to 10 volts for my 833. I found a 5 volt 110 amp supply for 30 bucks, and I can easily hold it in one hand! Don't have a use for it yet, but it was too pretty to pass up. These things are available in surplus stores in many flavors of voltage and current, and if you don't tell your tubes where the juice is coming from, they won't complain.

73 de W5EGP

- Steve -

* Steve Linscott Divisional Consultant Natural Sciences *
* Rice University 6100 South Main Street Houston, Texas 77005-1892 *
* Phone: (713)527-4985 FAX: (713)527-6099 Email: linscot@rice.edu *

From boatanchors@theporch.com Wed Nov 1 00:53:00 1995
From: post@ouvaxa.cats.ohiou.edu
Subject: Re:Making a large filament supply
Message-ID: <00998B42.12598115.4584@ouvaxa.cats.ohiou.edu>

Ohio University Electronic Communication

Date: 31-Oct-1995 05:52pm EST

To: Remote Addressee (_MX%"boatanchors@theporch.com")

From: Richard Post Dept: Instructional Media
Services
POST Tel No:

Subject: Re:Making a large filament supply

>My chances of finding a filament transformer for it are slim to none,

For a potent filament transformer, I suggest one of the microwave oven transformers that has separately spooled windings. These transformers are often being discarded with dead ovens. The type of transformer that is most useful has the primary on a separate spool or spool section on one side of the core and the secondaries on a separate spool or section. The high voltage secondary should be removed (hacksaw?) and the magnetron filament winding turns counted. Filaments for many of these run 3.3 volts but YMMV. With the secondaries removed, winding a new secondary with heavy wire at filament voltages should be relatively easy. I've got a pair of these transformers that are rated at just under a kilo VA, more than enough to heat your tube.

This is in the best of BA tradition, recycling heavy metal ;-)

73 de Rich <post@ouvaxa.cats.ohiou.edu>

Received: 31-Oct-1995 05:52pm

From boatanchors@theporch.com Wed Nov 1 00:53:00 1995
From: w0ogh@ix.netcom.com (Larry Godek)
Subject: meters wanted
Message-ID: <199510312203.0AA17713@ix8.ix.netcom.com>

I need some 3" round meters, model 301. I think they are Tripplett.

Scaled as follows: 3 ea 0-30Vdc
1 ea 0-500Vdc @ 1K ohm per Volt
1 ea 0-30madc

These are for some test sets and all I need to make them operational. Anyone have some of those, (doesn't everyone) I would be more than happy to relieve you of the burden of carrying them around anyplace and taking the chance of breaking them. Now don't everyone stampede to the door, but do reply if you happen to have any of these items.

Appreciate your efforts and conversation.

Larry W00GH@ix.netcom.com

From boatanchors@theporch.com Mon Oct 30 17:55:38 1995
From: "James T Hanlon" <JTHANLO@sandia.gov>
Subject: Re: Millen Help

Tim

Marty, AA4RM copied your Boatanchors posting to me. I'm only an occasional looker, not a subscriber, since there's an awful lot of stuff on the list and I don't have the time to spend on it. Also my employer officially frowns on such things, I think. And better not to find out the hard way.

Anyway ...

I do have a 90800, and wrote an article about it which appeared in Electric Radio last summer.

My experience is that there is a "little" TVI on 20 and unacceptable interference on 15 and 10 from the rig as is. I do

use the 90800 and a 90711 vfo on the air, mainly on the Classic Exchange and the AWA contest, but I just limit myself to 20 meters or lower with it. I even managed to work the James Millen station that the AWA put on the air with it and a matching HRO! Great fun.

I haven't seen the CQ article. What does it suggest?

I do have a grid current meter on my 807. Just put it in series with the bias battery, which in my case is five Radio Shack 9 volt carbon/zinc batteries in series. I normally limit the drive to the 807 to ARRL Handbook value (5 ma if I recall) or less. You can accomplish that either by detuning the 6L6 or by changing/varying the value of the coupling capacitor from the 6L6 plate to the 807 grid.

In my opinion, the TVI is just the natural result of running two unshielded class C stages. Class C naturally generates harmonics, and without shielding they will radiate. The first things that I would do if I wanted to de-TVI the 90800 would be to put an RF tight shield around everything and to filter all of the leads coming out of it. That would include closing up the "bottom" of the chassis, putting a shield can around the meter and bypassing the meter leads, bypassing and perhaps filtering all of the power leads, and boxing up the rear area around the tubes and coils that is presently wide open. Since that involves quite a bit of work and would considerably modify what is a nice antique (the 90800 was first sold in 1941 and therefore qualifies as a genuine pre-war rig for the AWA contest), I haven't done it and probably never will.

The 90801 on the other hand, is probably TVI proof. I'm working from memory at this point, but I'm sure it has complete shielding and filtering and it's bandswitched so there is no need to open the box to deal with plug-in coils. I've forgotten whether it has an extra "buffer/doubler" stage between the oscillator and the final, but it might. The final is a 6146, and the oscillator is probably a 6CL6 or a 6AQ5 or a 5763, much better than the original 6L6/807 layout. Updating the 90800 into a 90801 would just about amount to jacking up the knobs and sliding in a new transmitter. I wouldn't recommend it.

Jim Hanlon, W8KGI jthanlo@sandia.gov

From boatanchors@theporch.com Mon Oct 30 17:55:38 1995
From: tech@cs.athabascau.ca (Richard Loken)

Subject: re: Modifications

Message-ID: <m0tA1yL-0018KvC@aupair.cs.athabascau.ca>

re: replacing a KWM2 RCA rf connector with a UHF connector.

The question is valid but an RCA connector isn't. If this lowers the value of Collins gear then tell me so I can buy the gear up.

I think pulling a UHF connector and putting in a plate with an RCA connector would probably only further reduce the item's value - a knowledgeable collector might reject the rig as modified but original modification would be viewed as reasonable while the "restoration" would be viewed with consternation.

Besides, it was probably done 20 years ago when a KWM2 was just an overpriced radio and not a Relic of our Lord Art Collins. I'll keep my Drake.

Richard Loken VE6BSV, Systems Programmer - VMS : "...underneath those
Athabasca University : tuques we wear, our heads
Athabasca, Alberta Canada : are naked!"
** tech@cs.athabascau.ca ** : - Arthur Black

From boatanchors@theporch.com Tue Oct 31 15:23:00 1995

From: nielw@ix.netcom.com (Niel Wiegand)

Subject: National NTX-30 manual and part needed

Message-ID: <199510311226.EAA07963@ix8.ix.netcom.com>

Last weekend I aquired a late 30's National NTX-30 transmitter. Does anyone have a manual they can copy for me?

Mine is also missing the crystal holder. This piece plugs in the front of the NTX-30. It is about 3" deep with a front panel about 3"x4.5". It has a switch and two handles mounted to the panel and sockets behind for 4(?) crystals. There's a 5 prong plug on the back. Does this sound like something in your junkie box?

tnx es 73, Niel - WA5VLZ

From boatanchors@theporch.com Mon Oct 30 17:55:38 1995

From: "STLMAIL7.MK2331" <MK2331@STLMAIL7.SBC.COM>

Subject: Need info on BC-348(R)

Message-ID: <STLMAIL7.MK2331.344246100095303FSTLMAIL7@SBC.COM>

Microsoft Mail v3.0 IPM.Microsoft Mail.Note

From: KASTIGAR, MATTHEW (MM)

Subject: Need info on BC-348(R)

From boatanchors@theporch.com Mon Oct 30 17:55:38 1995

From: "Jack C. Shutt" <102023.1716@compuserve.com>
Subject: new member
Message-ID: <951030191946_102023.1716_EHT105-1@CompuServe.COM>

Hello fellow hollow state connoisseurs:

I have seen several messages from new list members introducing themselves, so I guess it is about time that I do the same. Many of you already know me from my on-the-air exploits with boatanchor gear on AM or possibly through several articles I have written for ELECTRIC RADIO.

I recently was introduced to this list by Grant, NQ5T and I have certainly enjoyed reading the tremendous amount of good stuff that appears here daily. As a matter of fact, I'm still trying to catch up on reading a back-log which occurred while I was on vacation.

I was originally licensed back in 1959 as K9UBF (KN9UBF). As a result, I remember when a lot of the so-called boatanchors of today were the state-of-the-art. I also remember when AM was the prevalent phone mode on the bands and ssb was just starting to make great in-roads.

I'll not bore you with a listing of my boatanchor collection, suffice to say I don't think the shack is too likely to blow away in the wind! My pride and joy continues to be my old Federal 167B marine transmitter (commercial rig off of a ship, circa 1943). the old rig uses a pair of ubiquitous 813s in the final and is modulated by a pr of 811A's in a home modulator. I'm told, it puts out a great signal on AM.

I can be found on 7290 or 7295 KHz, 3885 kHz, or 1885 kHz on AM especially during the winter months.

I'm an early-out retiree from the phone company with 29 years in the business, mostly as a radio and video engineer. Hope to soon get back into the working world, perhaps back in the cellular/wireless PCS field.

Anyway, its great to be a participant in this list and hopefully, I can make a meaningful contribution once in awhile!

I would sure like to see some sort of a compendium of R-390A articles and mods. Anyone have such a thing? I (like most boatanchor fans) own one of these beasts (a real Collins model, no less) and would like to spruce it up a little.

73, Jack C. Shutt, N9GT

102023.1716 @Compuserve.com
RadioNerd@AOL.com
Tel. # (219) 493-3901

From boatanchors@theporch.com Mon Oct 30 17:55:38 1995
From: al511@Freenet.UCHSC.EDU (Robert Neece)
Subject: Operating with a KW-1
Message-ID: <199510302136.0AA20606@Freenet.UCHSC.EDU>

Perhaps a word about the KW-1 from a technical and operational point of view will be of interest. I've been fortunate enough to examine six different KW-1's, up close and personal. I've used three of those on the air.

The KW-1 looks and sounds wonderful. No question about it.

It does have technical deficiencies, though, that might or might not bother someone willing to pay top dollar for a classic AM kw rig.

Two of the KW-1's I tried would often blow fuses on start up. If the main switch made contact at an inopportune place in the AC cycle, poof went the fuses. The owner of one of the units kept a big box of spares. The owner of the other installed a (shudder) solid-state soft-start circuit.

The KW-1 does not have a heterodyne VFO. It multiplies the fundamental VFO frequency into the higher ham bands. Thus, it is not a particularly stable rig on the higher bands. On AM, one might not care. On CW, the frequency instability might disappoint someone who hopes for more performance in so expensive and large a rig. This is particularly an issue on CW because, in using a Class C final, the KW-1 has superior efficiency in the final circuit on 10 meters, but does not have the

finest signal quality.

Before the FCC reduced the AM power limit in the HF ham bands, the KW-1 did not measure up on 160. It is rated at 500W carrier input there, rather than the kW rating on 80-10 meters. Nowadays, this has ceased to be an issue. In former times, though, I wanted to run full smoke on 160, and the KW-1 was not rated to do it.

Under today's regs., the KW-1 has excess AM power capacity on 80 through 10 meters, so that it not possible to operate it legally to its design potential on those bands in that mode. On CW, on the other hand, the KW-1 is not capable of reaching the current 1,500W output limit. So the rig is underpowered on CW and overpowered on AM. And, because the regs. are now couched in terms of output rather than input, much of the historical virtue of a Class-C final is lost.

The vacuum variable capacitor in the KW-1 final circuit was a unique design. I have reason to believe that Jennings built it to Collins specs just for the KW-1. Today, there are no replacements. And, because the KW-1 has a tuning scheme that gangs the low and high level stages together, it is essential to have a final vacuum cap that tracks the other stages correctly. Break this cap and you break the KW-1. A friend of mine had exactly this misfortune. So one of his rigs is kaput. The number of operational KW-1's today can be no larger than the extant number of these vacuum caps, unless one is willing to sacrifice the ganged-tuning system that was a hallmark of the KW-1 design.

In using the KW-1, one needs to pay attention to the condition and spacing of the spark-gap protectors for the modulation transformer. One of my friends blew two mod. xfirms because he neglected the spark gap. The KW-1 is most assuredly not a set-it-and-forget-it rig. It is a hands-on puppy. Many BAites will revel in this characteristic. But this is not a rig for non-expert AMers.

Then there's the daunting physical problem of the KW-1. Yes, it is modular, with chassis that can be removed from the cabinet one-by-one. But these are pretty hefty "modules." Not for the weak of back. Moving a KW-1 is a two-man job that takes significant time.

I had the opportunity to purchase a KW-1 in excellent shape only a few years back for \$1,800. I passed. Even with today's prices, I do not regret the decision. I am satisfied to have had plenty of air time with the rig. I still have a copy of the manual for one, and I refer to it in considering AM and power-supply design questions. But do I need to *possess* a KW-1? Nope. Understanding the design and having played with some KW-1's satisfies me!

--

73 de Bob, K0KR

From boatanchors@theporch.com Mon Oct 30 17:55:38 1995
From: w7ni@teleport.com (Stan Griffiths)
Subject: People who hate contests
Message-ID: <199510301702.JAA13405@desiree.teleport.com>

I have what I think is a good though quite obvious suggestion. If you don't like contests, avoid them by going elsewhere, just as you would not subscribe to the BA mail list if you hated boatanchors.

This is a serious suggestion because there are LOTS of places to go where there is no contesting.

Stan W7NI@teleport.com

From boatanchors@theporch.com Tue Oct 31 15:23:00 1995
From: paul Veltman <veltman@netcom.com>
Subject: Re: People who hate contests
Message-ID: <Pine.3.89.9510302143.A22278-0100000@netcom12>

Hi Stan,

> I have what I think is a good though quite obvious suggestion. If you don't
> like contests, avoid them by going elsewhere, just as you would not
> subscribe to the BA mail list if you hated boatanchors.

The main trouble this weekend is that I had to make a few mobile contacts back east. Besides there's nowhere to hide if the contest is taking up every available frequency (and even 2 Kc out of band) on 20 meters.

> This is a serious suggestion because there are LOTS of places to go where
> there is no contesting.
>

Remember when we were kids? It was stressed that hams were supposed to be polite, and not behave like an unruly mob. At the maximum, testers make up around 10% of the active amateur population. Why, should 90% of us be put out so that the minority can behave like a bunch of 2 year olds with no proper upbringing.

73

Paul WA6OKQ

From boatanchors@theporch.com Tue Oct 31 15:23:00 1995
From: Michael.J.Knudsen@att.com
Subject: Re: Plastic polishing
Message-ID: <9510302334.AA04370@bock.ih.att.com>

Do we BA-ers roll large steel ball bearings over our plastic dial faces?
I didn't think so. However, once again the pinball industry may have something to offer us. Pin games often have transparent plastic ramps that balls roll over, and of course these get "frosty" after a while, so there are some polishes made for cleaning and re-shining plastics.

One cleaner is called Nobus, and is only mildly abrasive, if at all.
There are some slightly more abrasive ones as well.
Oops, that's Novus up above.

I just bought another type over the weekend, hoping to clean up some radio and clockface "bubbles", and will report on how well they work once I get around to using the stuff.
73, mike k w9nrd

From boatanchors@theporch.com Mon Oct 30 17:55:38 1995
From: jml@spider.lloyd.com (Jim Lockwood)
Subject: Re: Plastic Resto
Message-ID: <m0t9zn1-000Ts7C@spider.lloyd.com>

Before anybody spends Big Bucks(tm) on any kind of plastic restoration kit from a commercial outfit, consider a low cost alternative:

400 grit and 600 grit Wet or Dry sandpapers are readily available from automotive paint supply shops and will level a plastic surface to a uniformly translucent finish.

After you've gotten as much good out of 600 grit paper as possible, use toothpaste on a cotton cloth to polish the plastic back to transparency.

This works, it's cheap, and replacement materials are readily available.

73,

Jim - km6nk

From boatanchors@theporch.com Mon Oct 30 17:55:38 1995
From: Grant Youngman <gyoungma@gtetel.com>

Subject: Re: Plastic Resto

Message-ID: <Chameleon.951030153326.gyoungma@gyoungma.gtetel.com>

>Before anybody spends Big Bucks(tm) on any kind of plastic restoration kit
>from a commercial outfit, consider a low cost alternative:

>

>400 grit and 600 grit Wet or Dry sandpapers are

The Micro Mesh kit from AES is only \$20. Grit range is around 1000 up to 6000 plus a liquid polishing and glazing compound to finish. When I did some badly crazed meter faces I STARTED with 400 grit -- and it did NOT leave a clean finish. Had to take it all the way to 6000 -- about an hours worth of messy work, with results being very much worth the effort. A factory perfect finish.

The special cloth backed abrasive sheets are washable and reusable. For the typical small restoration jobs the kit should be reusable many times.

Grant

Grant Youngman -- NQ5T

WANTED: Hammarlund SPC-10

gyoungma@gtetel.com

From boatanchors@theporch.com Wed Nov 1 00:53:00 1995

From: tcv@genrad.com (Thomas C Vales)

Subject: RE: POLISHING COMPOUND

Message-ID: <9510311803.AA27667@pulsar.genrad.com>

An addition to my earlier posting for plastic polishing compound suppliers is as follows: Merritt's Antiques in Douglasville, Pennsylvania.

S. LaRose Co in Greensboro, North Carolina.

Hope this helps.

73 Tom Vales

From boatanchors@theporch.com Tue Oct 31 15:23:00 1995

From: tcv@genrad.com (Thomas C Vales)

Subject: RE: POLISHING PLASTIC

Message-ID: <9510311127.AA08749@pulsar.genrad.com>

Folks: There is an item which I have used for years to remove scratches from plastic. It is called Crystal Clear. It comes in a stick and is applied to a buffing wheel. This stuff has been used for a long time by the watch and clock trade for removing scratches in plastic watch crystals. It should be available from any horological supply house such as Merritt's in Pennsylvania, or S. LaRose in Greenville, S. Carolina. [I'm pretty sure it's S. Carolina].

73 Tom Vales

N1MWE

From boatanchors@theporch.com Wed Nov 1 00:53:00 1995
From: Conard Murray <cfm@tntech.edu>
Subject: Q-multiplier question
Message-ID: <01HX3EPGBGHEQT8JM4@tntech.edu>

-- [From: Conard Murray * EMC.Ver #2.5.02] --

Hello all...

I am seeking single-signal reception on my new RAS receiver which has a 175 KHz IF. I remember using a Heath q-multi on a Collins 75A back in my teenage years (1980) and I would like to rig up a comparable setup. The problem is that I can't seem to find anything in any of the handbooks regarding such a beast and I have no idea how to design one either. I never really understood how you could hang a circuit on the IF with a single wire and get the effect of boosting the Q anyway. Anyone out there with a design or an explanation?

Thanks and 73,

Conard WS4S

From boatanchors@theporch.com Wed Nov 1 00:53:00 1995
From: "Randy Zelick" <RANDY@sbii.sb2.pdx.edu>
Subject: Re: Q-multiplier question
Message-ID: <5A0C0965C01@sbii.sb2.pdx.edu>

Dear Conard,

Try looking at the design for the Drake 2BQ. This is a very effective Q-multiplier which works the way you describe and is even packaged on its own chassis with long wires to connect back to the main rx. The circuit would have to be modified to your radio, but it is a starting place.

=Randy=
Randy Zelick
Dept. Biology
Portland State University
P.O. Box 751
Portland, OR 97207
503-725-3086 (voice), 503-725-3864 (fax)

From boatanchors@theporch.com Mon Oct 30 17:55:38 1995
From: merrigan@ee.ualberta.ca (Shaun P. Merrigan)
Subject: Rare BA spotted in Old QST
Message-ID: <199510302324.RAA26582@uro.theporch.com>

QST, December 1963, page 86, bottom right hand photo , above and
infront of KC4USP's head. Is this or is this not the bottom half of a
WRR-2 ??
Shaun P. Merrigan
merrigan@nyquist.ee.ualberta.ca
shaun.merrigan@freddy.com

From boatanchors@theporch.com Tue Oct 31 15:23:00 1995
From: TOM.A.ADAMS@mail.admin.wisc.edu
Subject: Re. BOUNCING METER
Message-ID: <FAV00314.FAV00333@mail.admin.wisc.edu>

to: boatanchors@theporch.com

Hello Bob.

Re. the wildly bouncing meter on the Knight T-50: there's nothing you can
do but live with it, and be glad that it reads at all. The old fashioned iron
vane meter movements that Knight used are notorious for high failure rates.

As far as tuning is concerned: the power supply is small enough, and the PA
is tough enough, that you can hold down the key long enough for the swing to
stabilize without worrying about tube burnout. I've done that on several T-50s
over the past 30 years, and NEVER blew an 807! In fact, I've yet to find ANY
tuning situation, including off resonance with no load, that would damage a
T-50! The only PA tube I ever lost in the rig died of old age; the filament
opened up.

That's one tough, forgiving little beginner's transmitter!

73's,

Tom, K9TA

From boatanchors@theporch.com Wed Nov 1 00:53:00 1995
From: klaudon@PICA.ARMY.MIL
Subject: Saw today - PRC-28
Message-ID: <9510311648.AA12965@batdd6.pica.army.mil>

On this post, the Thrift/Consignment shop is open on Tuesdays during the fall/winter months. Well, I usually get there once a year, if that. Mostly clothes and real JUNK - military families tend not to have real expensive stuff!

I have NEVER seen any military stuff there, except for old uniforms and occasional cartridge boxes. But today, I spotted a PRC-28 radio, in fair shape, with sectional antenna and handset! Mfg RCA, or Radiomarine, something like that, in Philadelphia. Contract date 1952. It didn't look THAT old. Frequency range 30-42 MHz. Price was \$ 15.

Dosen't seem too exceptional to me. I didn't buy it, but thought I would post to the list, to see if there is anything interesting about this compact portable radio, or if anyone wants it BADLY enuf for me to go up there again, buy it, and pack and send it to them (I kinda hope not, but in the spirit of BA friendship, I am willing...)

Don't know if it works, obviously.

73, all!

Kalman Laudon, AA2UQ CW, QRP, Hollow State Radios, and CW!!
<klaudon@pica.army.mil>
previously - WD6CZI, WA1SUF
"Get your facts first, then you may distort them as you please." - Mark Twain

From boatanchors@theporch.com Wed Nov 1 00:53:00 1995
From: "Cal J. Eustaquio" <ceustaqu@violin.aix.calpoly.edu>
Subject: Sitrep on BA's for sale
Message-ID: <Pine.A32.3.91.951031092417.55695E-100000@violin.aix.calpoly.edu>

Hey gang:
The following items have been sold
Courier-Gone
Ranger-Gone

Still left-Challenger-\$65

CE-200V-\$300

Hallicrafters SX-122 PRICE REDUCED TO \$200 PLUS SHIPPING. Includes xtal calib and mint R-47 spkr and manual.

All items plus shipping and AS-IS.

From boatanchors@theporch.com Tue Oct 31 15:23:00 1995

From: Duncan Cadd <dcadd@luc.ac.be>

Subject: spark diathermy etc

Message-ID: <9510311149.AA27518@alpha.luc.ac.be>

Greetings, Sparkies, from a foggy Diepenbeek in N.E. Belgium!

There was a posting here re pre-tube diathermy. The latest Lindsay's cat has a book (under \$10) on spark-type medical apparatus which might be of interest to the original postee, and indeed other books therein WILL undoubtedly interest Anchorites and Sparkies in general. Some very nice valve and pre-valve stuff.

Lindsay's details:

Lindsay Publications Inc.,
PO Box 538,
Bradley,
IL 60915

tel 815/935 5353 (best before 2pm Central time)

fax 815/935 5477

Mastercard and VISA accepted.

No, I don't get freebies! Just a very satisfied customer. And there was me thinking that my saving for Christmas was going OK and this chap Lindsay sends me not one but TWO catalogues (one on machine shop stuff) which are now threatening to make a LARGE hole in my pocket, the AUDATHITY of the man 8-) Well, OK, I DID ask him to . . . mea culpa.

73,

Duncan ON9CHU / G0UTY G-QRP 8117

From boatanchors@theporch.com Mon Oct 30 17:55:38 1995
From: "James P. Rybak" <jrybak@mesa5.Mesa.Colorado.EDU>
Subject: SW-3 Equivalent
Message-ID: <Pine.3.89.9510301249.A21839-0100000@mesa5.mesa.colorado.edu>

Does anyone know of a construction project in a 1930's era QST or in any other magazine, book, etc. for a receiver similar to the SW-3? I would like to build one.

Thanks.

Jim Rybak W0KSD

From boatanchors@theporch.com Mon Oct 30 17:55:38 1995
From: lakeith@wrdis01.robins.af.mil (Larry Keith)
Subject: Re: SW-3 Equivalent
Message-ID: <199510301922.NAA07668@wrdis01.robins.af.mil>

In your message of 30 Oct 1995 at 1314 EST, you write:

> Does anyone know of a construction project in a 1930's era QST or in any
> other magazine, book, etc. for a receiver similar to the SW-3? I would
> like to build one.

>

> Thanks.

>

> Jim Rybak W0KSD

>

About two years ago, an oldtimer was selling a SW-3 at the Athens, GA, hamfest. Although I got there too late, I noticed that the seller was showing the buyer a section of an early ARRL Handbook (1930's -- I think), that had the SW-3 circuit in it. Don't know if it was a construction section or just a receiver overview section.. But, it was a Handbook...

73,

Larry, KQ4BY

From boatanchors@theporch.com Wed Nov 1 00:53:00 1995
From: BOB.LIESENFELD@hamlink.mn.org (BOB LIESENFELD)
Subject: T-50 METER
Message-ID: <815151978.AA04063@hamlink.mn.org>

Hi Gang,

Thanks for the postings on the meter movement in my T-50. Much as I

suspected, and yes I tune *very* slowly! BTW as a young novice I once had a shorted PL259 which was plugged into this TX. It still loaded up albeit not easily, and I did make a few contacts. The only way I think one can pop an 807 is to throw it with great velocity against a brick wall :-()

72 Bob WB0POQ

Technology is OUT of control.....

---NoSnail v1.17

HAM>link< RBBS - Serving the Amateur Radio Community Since 1983

- 612/HAM-0000 v.34 Ham Radio Spoken Here!!
- 612/HAM-1010 v.32b Reply to sender @ hamlink.mn.org

From boatanchors@theporch.com Mon Oct 30 17:55:38 1995
From: Emile Imberman/US/3Com
Subject: TEK 551 info
Message-ID: <9510302313.AA4458@hqsmtp.ops.3com.com>

Hi,

Recently purchased a Tek 551 Dual Beam Scope. It has a CA module plugged in on one side and the other side is blank. I have no documentation on this scope or modules. Anyone have the manuals or documentation on different modules, I would be happy to pay for reproduction or whatever it takes. Thanks.....Emile KG5CY...

From boatanchors@theporch.com Mon Oct 30 17:55:38 1995
From: bill.sorsby@dlep1.itg.ti.com (Bill Sorsby)
Subject: Texoma Report
Message-ID: <199510302212.QAA17099@dlep1.itg.ti.com>

Greetings:

Attended the swapmeet at the Lake Texoma hamfest Oct. 28, 1995. There was some boatanchor gear available, but conspicuously absent was anything Hallicrafters and the "restored" gear at collector prices. (That didn't stop "restored" prices on a few things though.) Lots of equipment being sold for some "lady" or other. I heard this at least a half dozen times along with a few "estate sales". Sobering. Most notable of these was the boy scout troop with a flat bed trailer full of stuff they were selling for some "lady".

The scouts came late and when I first noticed them people were walking away with equipment under their arms. The big stuff was pretty well picked through but I did latch onto a Heath VF-1 VFO for \$5. The scouts had little idea of equipment values. It was all junk to them and had all been battered around in the trailer. The VF-1 has a number of fresh scars. The equipment was probably donated to them by the "lady". Overheard them discussing tactics later when I walked by. Huddled together they discussed whether so and so would offer more when he came back and whether they should stand firm on price! This was obviously their sale.

Although not hollow state I picked up a very nice SB-34 for a pauper's fee. It included the original manual and the original SBE cardboard box complete with original packing material! Rig works fine, too. The guy selling it was also selling a Tempo One for \$50. It was in fair to poor condition, but didn't last long.

gear noted:

HEATH:

three DX-100's - none sold

couple of DX-40's (or DX-35's?)

HW-?? 40 meter SSB rig with power supply, \$50, unsold

several Heath SSB power supplies, \$20-\$30, unsold

VF-1 VFO, \$5, (carried it home)

Mobile AM pair (Comanche/Marauder?), fair condition, each under \$100, unsold

Johnson Valiant I poor condition but appeared complete, \$75, unsold

Tempo One, \$50, sold early

Lafayette, HA-350 ham receiver, \$25, (Did I really buy this? But, it looked so nice.)

Tektronix 549 storage scope, very good cond, \$100, I believe it sold

Hickock 292 "Crystal Controlled Microvolt Generator", fair condx, \$5, (carried it home)

Military version of HP8640 sig gen. poor condx (no readout, no atten), \$100, unsold

National Rx, coulda been -183 - don't remember for sure, under \$100, fair condx

The Vintage Radio & Phonograph Society Convention in Dallas the same weekend probably limited the boatanchors available at Texoma, but I'm happy. Anytime I find one of the pieces of equipment I've been looking for, I'm happy. Now, if I can get that Hickock up and running.

Regards,

Bill Sorsby, N5BU
(ex WA50LS)

bill.sorsby@dlep1.itg.ti.com

From boatanchors@theporch.com Mon Oct 30 17:55:38 1995
From: pbock@melpar.esys.com (Paul H. Bock)
Subject: To Dave, AB5S/7: Mail working yet?
Message-ID: <9510301928.AA01569@syseng1.se.melpar.esys.com>

Please excuse my using this forum, fellow BAers, but:

Hey, Dave, I got your e-mail re the swap of ARC-5 nametags for the relay & resistor, and responded in the affirmative. If you did not get the e-mail, let me know and I'll just send the relay & resistor your way.

73 DE Paul, K4MSG

>Hi Paul. I have a junker T-22 which will provide the T-22 plate
>and the blue instruction plate. I'd be happy to swap with you
>for the 7010 resistor and the antenna relay. Let me know
>what you think.
>73 DE Dave Stinson AB5S/7

From boatanchors@theporch.com Mon Oct 30 17:55:38 1995
From: merrigan@ee.ualberta.ca (Shaun P. Merrigan)
Subject: Trade: Book for Manual
Message-ID: <199510302324.RAA26583@uro.theporch.com>

Ok, I have a Jane's Military Communications 1981 in great shape (coffee table size, 600 pages; it has lots of BA's in it!!) what I want is a NAVSHIPS 94715 AN/WRR-2 AN/FRR59A Maintenance and Theory of Operation Manual. Please, no poor quality reproductions or cheap copies. At the very least I want a high quality copy or better yet, an original..... Hagggle via email.

Hey, you never know until you try!!

Thanks.

shaun
Shaun P. Merrigan
merrigan@nyquist.ee.ualberta.ca
3rd Year EE
University of Alberta

"A wrong is unredressed when retribution overtakes the redresser."
"It is equally unredressed when the avenger fails to make

himself known as such to him who has done the wrong." -E.A.P

From boatanchors@theporch.com Tue Oct 31 15:23:00 1995
From: "Stephen M. Linscott" <linscot@rice.edu>
Subject: Re: Trade: Book for Manual
Message-ID: <Pine.SUN.3.91.951030231652.10944C-100000@is.rice.edu>

On Mon, 30 Oct 1995, Shaun P. Merrigan wrote:

> Ok, I have a Jane's Military Communications 1981 in great shape
> (coffee table size, 600 pages; it has lots of BA's in it!!) what I
> want is a NAVSHIPS 94715 AN/WRR-2 AN/FRR59A Maintenance and Theory of
> Operation Manual. Please, no poor quality reproductions or cheap
> copies. At the very least I want a high quality copy or better yet,
> an original..... Hagggle via email.
>
> Hey, you never know until you try!!
>
> Thanks.
>
> Shaun P. Merrigan

Shaun - After you find the above manual, you may want a companion manual: NAVSHIPS 93550.61 "Technical Manual covering Overhaul and Repair Instructions for Radio Receiving Sets AN/WRR-2 and AN/FRR-59". This manual is only 1/4" thick, and is no substitute for the M & TO manual, but is complementary to it. Original, in VG condition, \$20 PP.

- Steve -

From boatanchors@theporch.com Tue Oct 31 15:23:00 1995
From: David Stinson <72227.1640@compuserve.com>
Subject: TUBES
Message-ID: <951031132141_72227.1640_EHM36-1@CompuServe.COM>

Does anyone here use (or perhaps know the use of),
type 812A or 1616 tubes?
Dave AB5S/7

From boatanchors@theporch.com Tue Oct 31 15:23:00 1995

From: USSAILIS@forum.phast.umass.edu
Subject: Tubes FS
Message-ID: <01HX2HNSICUA8WWJ0Y@oitvms.oit.umass.edu>

Have some 2C40s for sale.
a 2C40 is a planer triode, often refered to as a "lighthouse" tube. It is
approxmately the size of a 2C39, but the specs are different. Was used as an
oscillator up to 3 GHz or so.o
\$25 ea, two for 40 bucks. Post paid.

Jim, W1EQO

From boatanchors@theporch.com Mon Oct 30 17:55:38 1995
From: thaake@bsm2ee1.attmail.com (thaake)
Subject: UTC Data
Message-ID: <PMX-TERM-2.02-bsm2ee1-thaake-2>

RE: UTC Type S Transformers (Modulation, Driver, Output)

I came across a data sheet packed in the box with a "S" tranformer that gives
alot of info including terminal layout/imp./ratios. The data is on the "S"
series types S-18, S-19, S-20, S-21, S-22. Also connection data on S-5, S-6,
S-7, S-8, S-9, S-10, S-14, S-15, S-16, S-17

The data sheet is 2 pages front and back. I can try to fax or send a SASE
to me for a copy.

Tim Haake
128 Lakepoint Drive
St. Peters, MO 63376

thaake@bsm2ee1.attmail.com

From boatanchors@theporch.com Tue Oct 31 15:23:00 1995
From: HAMRLUND@aol.com
Subject: want matching speaker for.....
Message-ID: <951031000724_93875336@mail02.mail.aol.com>

looking for the matching speaker for the HRO-500 last run (1971)
if you have such an animal, and wish to find it a new home, let me know.
I have an HRO-500 thats just itching to have the matching speaker sit beside
it.
forgive this if it is just a tad off subject, but don't where else to ask.

thanks

CONTACT: Robert Fowle.....Hamrlund@aol.com

Ph.517-789-6721.....

1215 Winifred....Jackson, Mich. 49202-1946

 | |
 ---|---|---> The HAMMARLUND Historian
 | |

Historical Information -- Manuals -- Technical Material

I'm looking for anything by HAMMARLUND:

literature -----> spec sheets, sales flyers, sales catalogs
files -----> from: factory, service stations, authorized dealers
manuals -----> factory or military
accessories ----> speakers, clocks, xtals, xtal boxes, anything
face plates-----> for sp-200/400/600 series' recievers

From boatanchors@theporch.com Mon Oct 30 17:55:38 1995

From: Bill VanAlstyne <bill@cruz.com>

Subject: Writing [was: Re: Kudos to all boatanchors]

Message-ID: <199510302144.AA26441@cruz.com>

At 06:40 AM 10/30/95 -0600, Dave, W3BZJ wrote:

>

>In my opinion, I believe that one of the secondary
>benefits of computers, specifically, E-Mail, is that we are polishing our
>writing skills and exposing our latent creative abilities.

Well said, Dave. I agree. However, there is another side to the coin --

isn't there always? -- and that is the fact that many people are intimidated away from getting on-line (in the interactive, communicative sense) *because* it involves writing, a skill they lack to a greater or lesser degree. Either out of a fear of embarrassment at their relative lack of literary competency, or out of a misplaced loathing of writing itself, they simply never show up in cyberspace in the first place.

My wife is one such. Burdened with some severe learning disabilities, she attained two 4-year degrees and a masters degree, but made extensive use of editors (read "ghost-writers") to get to that point. And so she won't expose herself, editor-less, on-line. I also know others, equally intelligent and creative, in the same position.

Which, given the increasing ubiquitousness of computers and networking in business and, increasingly, even in popular culture -- well, something's gotta give. Will the electronic networking revolution force a resurgence of literacy in our culture? Or will our culture simply fracture into a minority of the cyber-literate cognoscente on the one hand, and a sub-literate, un-networked majority on the other? I believe passionately that the former is possible, but I fear the latter is far more likely, at least in the near term.

Not to start a thread here, since this is really not a BA subject, but I wanted to respond to Dave's remarks, since I think they open a very profound and urgently relevant Pandora's Box for all of us.

Sorry, Jack. It won't happen again. :)

Bill VanAlstyne, N6FN
bill@cruz.com

From boatanchors@theporch.com Wed Nov 1 00:53:00 1995
From: Frank_Scutch-EFS003@email.mot.com
Subject: WTB: Collins R390A Filters
Message-ID: <"Macintosh */PRMD=MOT/ADMD=MOT/C=US/"@MHS>

Hello:

I am in need of a 2 Khz and 4 Khz filter from an R390A. I want to adapt these to a 75A4.. Please email me direct if you can help - I know Fair Radio has these but am trying to get a bit better price. Thanks.

Frank Scutch, WB4AYJ
efs003@email.mot.com

From boatanchors@theporch.com Wed Nov 1 00:53:00 1995
From: pbock@melpar.esys.com (Paul H. Bock)
Subject: WTB: Power transformer & choke
Message-ID: <9510311540.AA21590@syseng1.se.melpar.esys.com>

Looking for the following:

Power transformer, 800 VCT @ 200 ma or similar, plus 6.3 VAC and 5 VAC windings. Prefer a commercial unit (Thordarson, Triad, Stancor, etc.) to a "super heavy duty" military xfmr.

Filter choke, 5 Hy or greater at 200 ma.

New transformers are available from AES but they're quite pricey; Fair Radio has some surplus military units but they're great big honkers than weigh a ton. Anyone got anything available in a commercial unit for less money?

73,

Paul, K4MSG e-mail to pbock@melpar.esys.com

From boatanchors@theporch.com Tue Oct 31 15:23:00 1995
From: km6sn@beacons.cts.com (Rod Davis)
Subject: WTD: 813 AMP ANY CONDX
Message-ID: <m0tAGkE-000HvqC@beacons.cts.com>

WANTED: 813 AMP ANY CONDX. Reply via email ONLY to km6sn@beacons.cts.com, or 619-549-7925 . Thanks, and 73, Rod KM6SN

From boatanchors@theporch.com Tue Oct 31 15:23:00 1995
From: clarke@next3.acme.ist.ucf.edu (Thomas Clarke)
Subject: Wuzzit 4610 Tube
Message-ID: <9410310227.AA23311@next3.acme.ist.ucf.edu>

Does anyone know what a 4610 tube is?
Owner describes them via e-mail as a 7 pin base (829 style) with two top electrodes and appears to be a "dual triode". Is this some sort of UHF push-pull triode? If so I might have a use.

Tom Clarke
KE4VFH